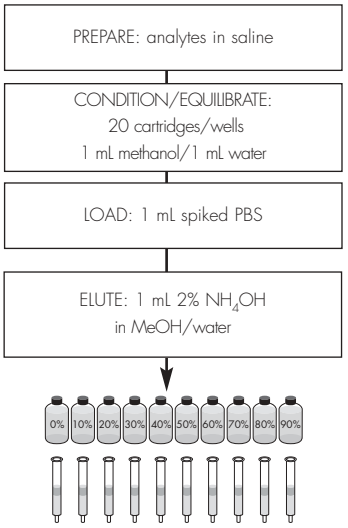
SECTION 3: OASIS® MIXED-MODE (MCX/MAX) OPTIMIZED METHODOLOGY

The mixed-mode optimized methodology is designed to produce a much cleaner extract, which enables much greater sensitivity. This methodology utilizes the dual modes of retention (reversed-phase and ion-exchange) to selectively isolate basic (or acidic) and remove more interferences.

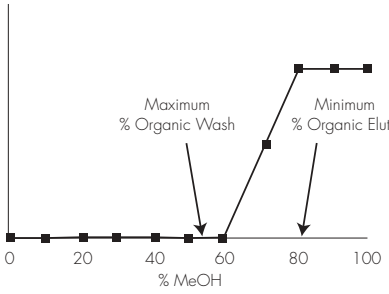
A. OPTIMIZED OASIS® MCX METHOD

The Wash-Elute Study is performed to determine the optimal retention and elution parameters for basic analytes on the Oasis® MCX with simple manipulation of basic organic concentration.

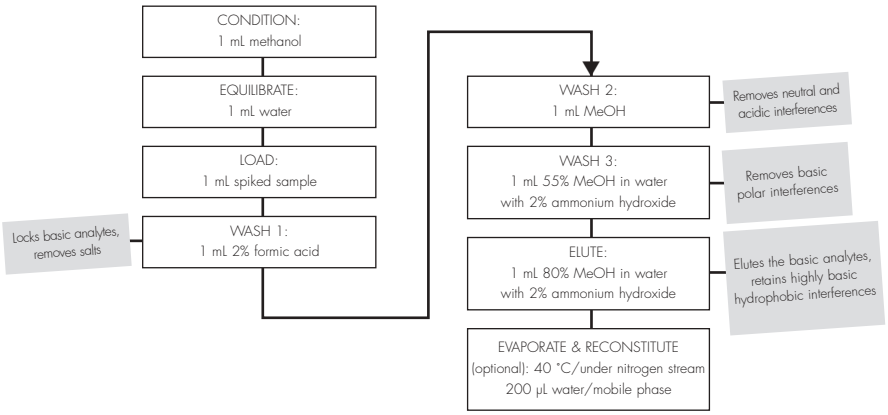
WASH ELUTE STUDY: EXPERIMENT FOR
OASIS® MCX 30 mg 96-WELL PLATE/CARTRIDGES



BASIC WASH-ELUTE STUDY RESULTS

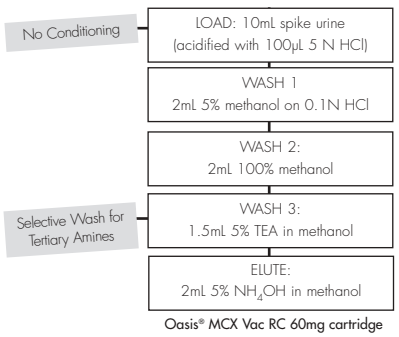


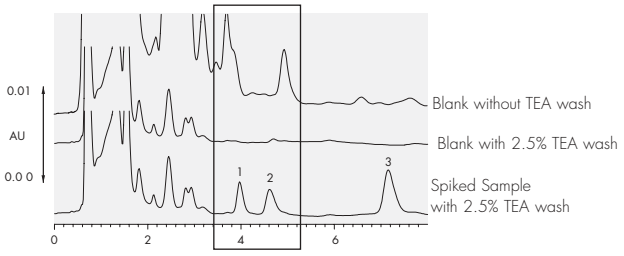
OASIS® OPTIMIZED MCX METHOD *(for thiabendazole in citrus juice)*

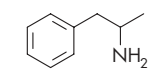


OPTIMIZED OASIS® MCX METHOD FOR AMPHETAMINES AND METHAMPHETAMINES FROM HUMAN URINE

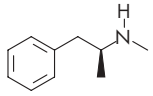
TEA selectively washes off tertiary amine interferences







AMPHETAMINE



METHAMPHETAMINE

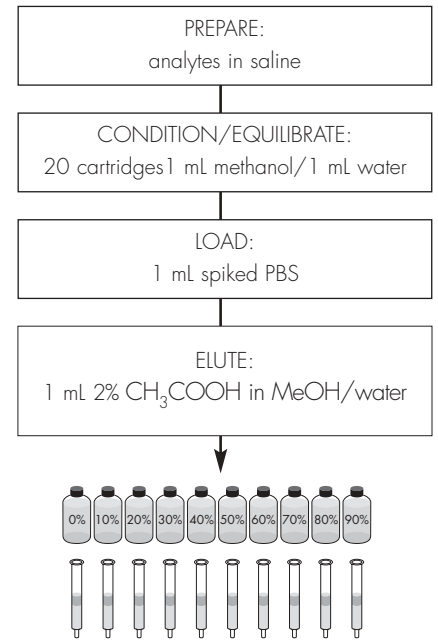
4µg/mL n=6%	RESULTS RECOVERY	RSD
1. Amphetamine	96.8%	1.35%
2. Methamphetamine	90.4%	4.01%
3. Phentermine (I.S)*	–	–

*Internal Standard

B. OASIS® MAX OPTIMIZED METHOD

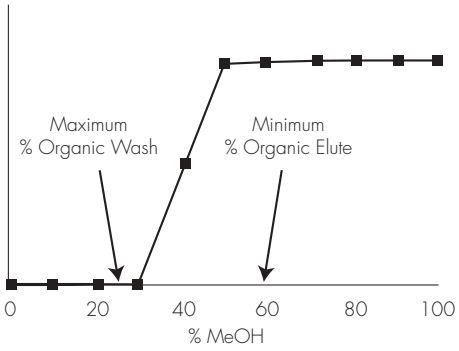
The Wash-Elute Study is performed to determine the optimal retention and elution parameters for basic analytes on the Oasis® MCX with simple manipulation of basic organic concentration.

WASH ELUTE STUDY



Experiment for Oasis® MAX 96-well Plate 30 mg

ACID WASH-ELUTE STUDY RESULTS



OASIS® OPTIMIZED MAX METHOD *(for naphthoic acid in ground water)*